Huawei Munich Research Center
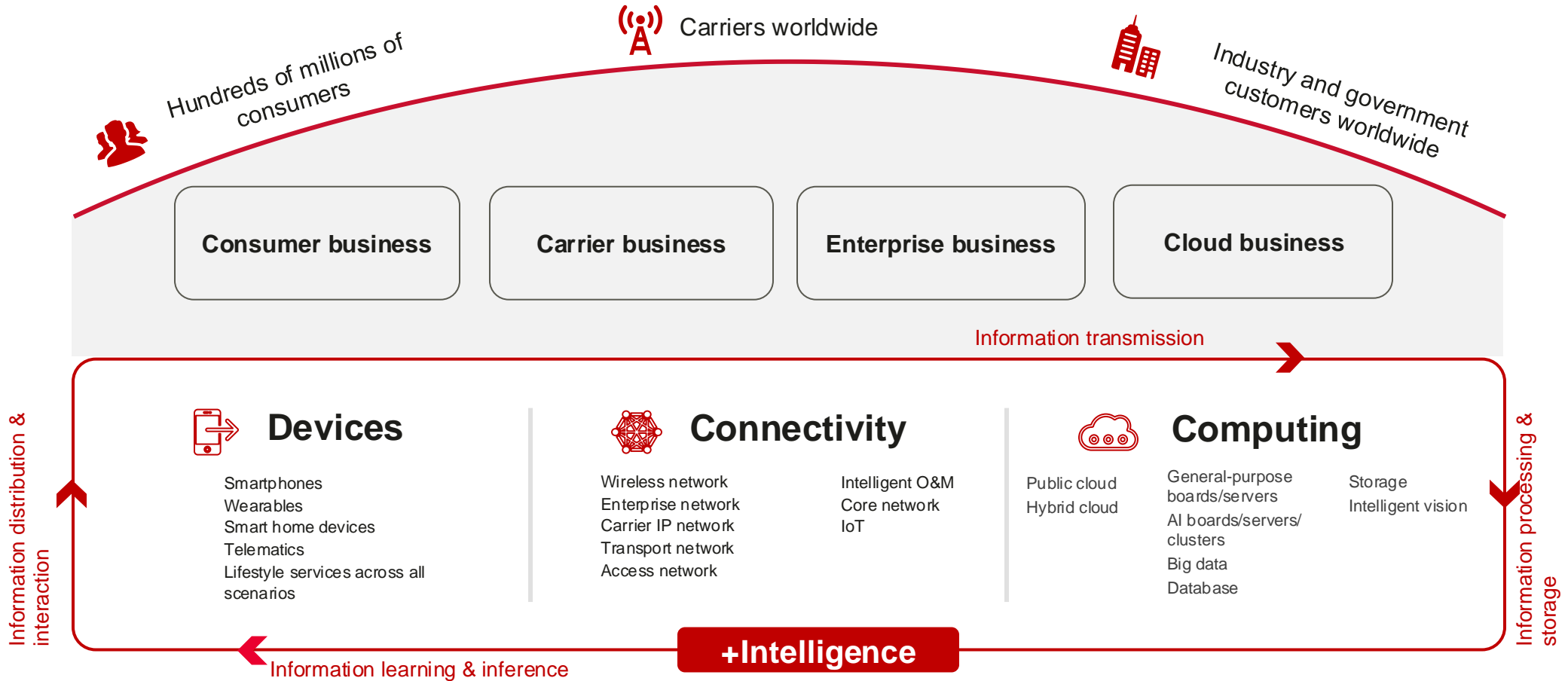# hackaTUM 2024 Challenge

Towards a Trustworthy Digital World

Huawei: Leading Global Provider of ICT Infrastructures & Smart Devices

Our vision: To bring digital to every person, home and organization for a fully connected, intelligent world

Carriers worldwide

Hundreds of millions of consumers

Industry and government customers worldwide

Consumer business	Carrier business	Enterprise business	Cloud business

Information transmission

Information distribution & interaction

Information processing & storage

Devices

Smartphones
Wearables
Smart home devices
Telematics
Lifestyle services across all scenarios

Connectivity

Wireless network
Enterprise network
Carrier IP network
Transport network
Access network

Intelligent O&M
Core network
IoT

Computing

Public cloud
Hybrid cloud

General-purpose boards/servers
AI boards/servers/clusters
Big data
Database

Storage
Intelligent vision

+Intelligence

Information learning & inference

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The Challenge

- **Our challenge will be a set of smaller puzzles in the realms of system security.**

- We don't want to spoil the exact details of the challenge but you can roughly expect the following topics:
  - > Binary analysis of an unknown driver.
  - > Building an optimized compiler for a security enhanced ISA.
  - > Exploring hidden features in an emulated trusted execution environment.

- If you enjoy CTF-like challenges and problem solving, then this challenge is for you.

- You will get more info in our 30min presentation.

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The Grading

- **The overall challenge is graded with weighted grades from individual puzzles.**

- Puzzles can be graded using...

  > ... a static number of points weighted by solve count

  > ... a dynamic number of points depending on the solve speed or program performance.

  > ... other performance metrics (if mentioned for the individual puzzle)

- **Additionally we will manually grade based on your used strategy, implementation and presentation.**

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Thank you.

Bring digital to every person, home and organization for a fully connected, intelligent world.

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